25X1

25X1

25X1

## Approved For Release 2005/02 F GREDP78B04770A001400010006-1

MPIC/TDS/D-1175 -67 11 December 1967

Declass Review by NGA.

| MEMORAHDUM FOR: | Director, National Photographic Interpretation Conter |
|-----------------|---|
| SUBJECT :       | Proposed Contract with the                            |

- 1. This memorandum requests approval for two commitment of funds for a contract. The specific request is stated in Paragraph 7.
- 2. Modern photographic recommaissance systems frequently record sterested pairs of photographic images which are not inherently aligned; that is, they must be translated, rotated, and contracted or expanded, in one dimension or the other, under the microstereoscope before they can be properly oriented and fused by the mind into a stereoscopic (3-3) image. This unique requirement resulted in the development of prototype animorphic eyepieces which function as attachments to the \_\_\_\_\_ Zoom 70 microsterioscope and \_\_\_\_ high waver Stereoviewers. These animorphic lamses consist of cylindrical zoom or prismatic optical systems, and provide the capability of compensating for the animorphic distortion (difference between the X and Y scales) often found in stereo reconnaissance imagery. Mosever, these optical compensations require tiring manual adjustment and constant visual compensation of the individual images in two separate optical trains. Commequently, the compensating adjustment process is time-consuming, incomplete, and difficult to achieve without visual superimposition (placing one on top of the other) of the two images.
- 3. The proposed project consists of the design and fabrication of one prototype Rapid Alignment Device. Then this instrument is menuted on the ends of the anamorphic eyepleces, it will provide for superimposing two left and right images. The superimposed images will permit the operator to observe the relative effects of each individual eptical adjustment and to better visualize the alignment process, thereby speeding up and improving the alignment of stereo pairs.
- 4. The Contracting Officer will be requested to negotiate this fixed Priced contract in a single phase: the design and fabrication of a prototype Rapid Alignment Device. The Technical Development Staff has recommended the MonoRAD (monoscopic) version because of its simplicity and significant cost savings in production quantities. The total time anticipated for fabrication and delivery of the prototype instrument is 4 souths from the contract date.

**NGA Review Complete** 

25X1

25X1

CADUP 1
Einfinded from motoricals
interpolitation and
neclypolitication

## Approved For Release 2005/02/17 SEARUP 8B04770A001400010006-1

|              | SURJECT: Proposed Contract with the for Design and Pabrication of a Fapid Alignment Device for Microsterescopes at a Cos   | 25X1<br>25X1   |
|--------------|--|--|
|              | 5. The initial concept for this device was outlined in an amsolicited proposal received from the   | 25X1   |
|              | 6. There is no known equipment either under development or cornercially available which will satisfy this requirement. This project has been coordinated with DDS4T and COMIREX, and through review of other Agency RED programs, and it has been determined that there is no duplication. | Experience des presents on a service of the service |
| 25X1<br>25X1 | 7. It is requested that approval be granted to negotiate with for a contract to build the prototype at a cost not to exceed  | 25X1   |
|              | Assistant for Technical Sevelopment, APIC  | 25X1   |
| 25X1         | Attachments: Catalog Form  |  |
|              | APPROVED:  |  |
|              | Distribution: Orig & 1 + Addressee 1 - HPIC/SS 2 - NPIC/A/TD V3 - NPIC/TD/DS   |  |
| 25X1         | NPIC/TDS/DS: (8 December 1967)   |  |

Approved For Release 2005/02/17: CIA-RDP78B04770A001400010006-1